

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number
WO 2004/095373 A3

(51) International Patent Classification⁷: **G06T 7/00**

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(21) International Application Number:

PCT/GB2004/001545

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(22) International Filing Date: 8 April 2004 (08.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0308943.0 17 April 2003 (17.04.2003) GB

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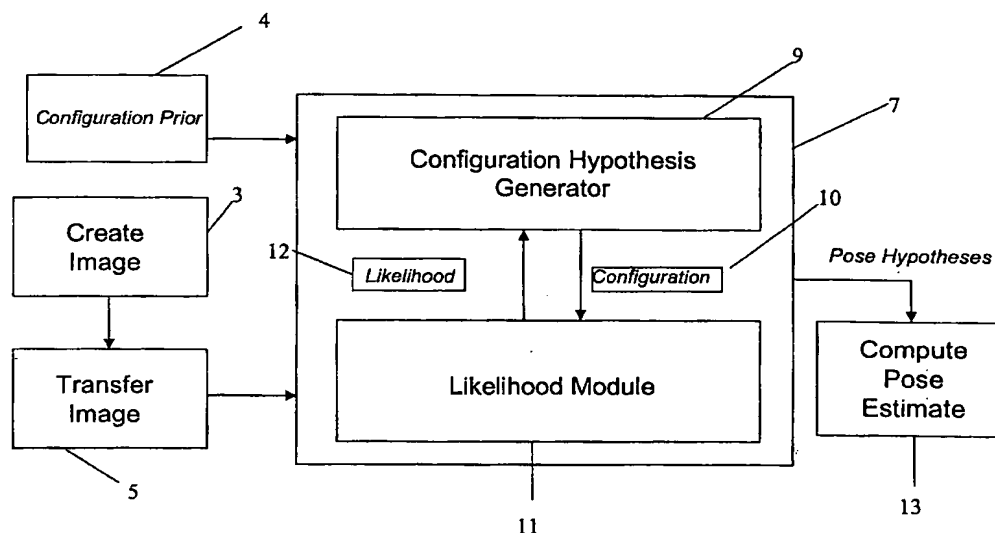
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
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TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR DETERMINING OBJECT POSE FROM IMAGES



(57) Abstract: A method and system for identifying an object or structured parts of an object in an image. A set of templates are created for each of a number of the parts of the object and the templates are applied to an area of interest in an image where it is hypothesised that an object part is present. The image is analysed to determine the probability that it contains the object part. Thereafter, other templates are applied to other areas of interest in the image to determine the probability that this area of interest belongs to a corresponding object part. The templates are then arranged in a configuration and the likelihood that the configuration represents an object or structured parts of an object is calculated. This is calculated for other configurations and the configuration that is most likely to represent an object or structured part of an object is determined. The method and system can be applied to creating a markerless motion capture system and has other applications in image processing.

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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:

17 February 2005

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/001545

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06T7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>IOFFE S ET AL: "Human tracking with mixtures of trees" CONFERENCE PROCEEDINGS ARTICLE, vol. 1, 7 July 2001 (2001-07-07), pages 690-695, XP010554049 section "1. Introduction" section "2. Modeling with trees" section "3. Learning a tree model" section "5.2. Tree root as a coordinate frame" section "6. Tracking" section "6.1. Detecting body parts" section "6.2. Modeling the body"</p> <p style="text-align: center;">----- -/--</p>	<p>1-7,9, 10, 15-24, 26,27, 33-37</p>

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☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

7 December 2004

Date of mailing of the international search report

23/12/2004

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INTERNATIONAL SEARCH REPORT

Interr 1st Application No
PCT/GB2004/001545

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 269 172 B1 (MORRIS DANIEL D ET AL) 31 July 2001 (2001-07-31) column 3, lines 46-76 column 4, lines 52-56 column 5, lines 11-16, 58-60 column 6, lines 17-23 figure 5c</p>	1-37
A	<p>-----</p> <p>REHG J M ET AL: "Model-based tracking of self-occluding articulated objects" COMPUTER VISION, 1995. PROCEEDINGS., FIFTH INTERNATIONAL CONFERENCE ON CAMBRIDGE, MA, USA 20-23 JUNE 1995, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 20 June 1995 (1995-06-20), pages 612-617, XP010147042 ISBN: 0-8186-7042-8 abstract section "1 Introduction" section "4 Registering Layered Templates" figure 7</p> <p>-----</p>	1-37

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2004/001545

Patent document
cited in search report

Publication
date

Patent family
member(s)

Publication
date

US 6269172

B1

31-07-2001

NONE